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Sequence Listing was accepted with existing errors.

See attached Validation Report.

If you need help call the Patent Electronic Business Center at (866)
217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: Wed Aug 08 14:48:18 EDT 2007

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Application No: 10592919 Version No: 1.0

Input Set:**Output Set:**

Started: 2007-07-31 20:39:04.228
Finished: 2007-07-31 20:39:05.905
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 677 ms
Total Warnings: 46
Total Errors: 6
No. of SeqIDs Defined: 48
Actual SeqID Count: 48

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
E 249	Order Sequence Error <210> -> <220>; Expected Mandatory Tag: <211> in SEQID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

Started: 2007-07-31 20:39:04.228
Finished: 2007-07-31 20:39:05.905
Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 677 ms
Total Warnings: 46
Total Errors: 6
No. of SeqIDs Defined: 48
Actual SeqID Count: 48

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (21)
W 213	Artificial or Unknown found in <213> in SEQ ID (22) This error has occurred more than 20 times, will not be displayed
E 342	'n' position not defined found at POS: 5 SEQID(27)
E 342	'n' position not defined found at POS: 15 SEQID(27)
E 342	'n' position not defined found at POS: 6 SEQID(48)
E 342	'n' position not defined found at POS: 16 SEQID(48)
E 250	Structural Validation Error; Sequence listing may not be indexable

SEQUENCE LISTING

<110> Michael, T. Migawa

Walter F. Lima

Eric E. Swayze

Joshua Nichols

Hongjiang Wu

Thazha P. Prakash

Tadeusz Krzysztof Wyrzykiewicz

Balkrishen Bhat

Stanley T. Crooke

<120> COMPOSITIONS AND METHODS FOR OPTIMIZING

CLEAVAGE OF RNA BY RNASE H

<130> CORE0037USA

<150> PCT/US2005/008428

<151> 2005-03-15

<150> 60/609,516

<151> 2004-09-13

<150> 60/567,016

<151> 2004-04-29

<150> 60/553,646

<151> 2004-03-15

<160> 48

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<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic oligonucleotide

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<210> 3
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<220>
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<210> 6
<211> 25
<212> DNA
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<220>
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<210> 7
<211> 28
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<220>
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<210> 8
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<210> 9

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<400> 15
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<210> 16
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<400> 16
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<210> 17
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<210> 18
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<400> 18
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<210> 19
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<400> 19
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<210> 20
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<210> 21
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<222> 14
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<400> 28
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<210> 29
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<221> misc_feature

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<223> N = 2'-ara-fluorothymidine or pseudouridine or
2'-fluorothymidine or 2-thiouridine or
2'-S-methylthymidine or 4'-methylthymidine or
3'-methylthymidine

<400> 29

ctacgcnttc cacgcacagt

20

<210> 30

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<220>

<221> misc_feature

<222> 8

<223> 2'-ara-fluorothymidine or pseudouridine or
2'-fluorothymidine or 2-thiouridine or
2'-S-methylthymidine or 4'-methylthymidine or
3'-methylthymidine

<400> 30

ctacgctntc cacgcacagt

20

<210> 31

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<213> Artificial Sequence

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<222> 9

<223> 2'-ara-fluorothymidine or pseudouridine or
2'-fluorothymidine or 2-thiouridine or
2'-S-methylthymidine or 4'-methylthymidine or
3'-methylthymidine or abasic nucleotide or 2,4-F-tolyl

<400> 31

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20

<210> 32

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<212> DNA

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<210> 33

<211> 20

<212> DNA

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<223> abasic nucleotide or 2,4-F-tolyl

<400> 33

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20

<210> 34

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linker or adenine with pentyl linker or
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<400> 34

ctacgctttt cncgcacagt

20

<210> 35

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

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<210> 40
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